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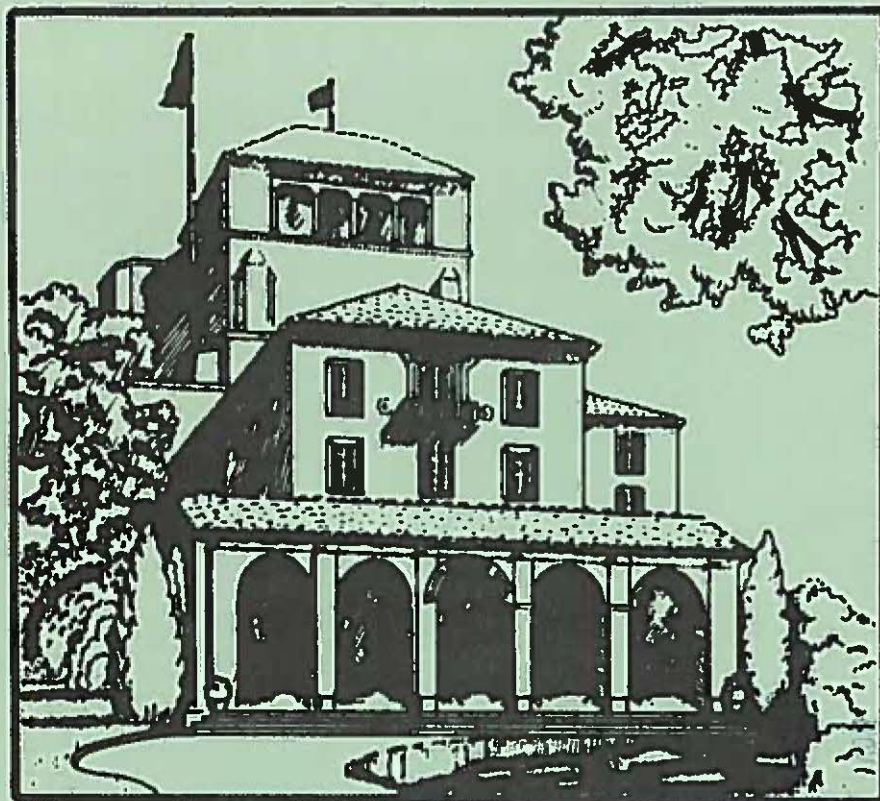
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Naval Postgraduate School

FACULTY
BULLETIN

ISSUE NO. 10-76

26 October 1976

MILITARY AWARDS

Rear Admiral Isham Linder, USN, Superintendent, Naval Postgraduate School, presented military awards to officers on the staff at the Naval Postgraduate School in a ceremony in the Quarterdeck Lounge on 29 September 1976. Following officers received the awards indicated:

Captain John J. Sweeney, USA
Major Walter W. Cannon, USA

Major David P. Burke, USAF

Captain Gary C. Heise, USAF

Captain Velente Macias, Jr, USAF
Captain Alan A. Simoncic, USAF
Lt(jg) John C. Devlin, USN

Bronze Star
Meritorious Service Medal (First Oak
Leaf Cluster)
Air Force Commendation Medal (First
Oak Leaf Cluster)
Air Force Commendation Medal (Second
Oak Leaf Cluster)
Air Force Commendation Medal
Air Force Commendation Medal
Navy Achievement Medal

ANNUAL FACULTY ELECTION MEETING

The annual Faculty Election meeting will be held in Ingersol-122 at 1515, 30 November 1976. At this meeting the Faculty Chairman, representatives to the Faculty Council, and new members of the Faculty Standing Committees will be elected. Faculty are reminded that nominations for the office of Faculty Chairman must be submitted to the Faculty Secretary for circulation to the Faculty five days before the meeting.

DISTINGUISHED VISITORS

Mr. Norman Polmar, American Editor of Jane's Fighting Ships, delivered the Superintendent's Guest Lecture in King Hall on Thursday, 30 September 1976. Mr. Polmar spoke on the Soviet Use of the Seas.

BGEN Berry Rowe, USAF, Commander Air Weather Service, reviewed the Meteorology Programs and met with Air Weather Service Officer students on Friday, 1 October 1976. He also contacted FNWC and NEPRF.

On 1 and 2 October the California National Guard Flag/General Conference convened at the Naval Postgraduate School to discuss areas of mutual interest. They were welcomed by the Superintendent and escorted by representatives of the California National Guard.

The Director, U. S. Army TRADOC Systems Analysis Activity, Dr. Wilbur B. Payne, conferred with the U.S. Army Operations Research and Systems Analysis officer students on Monday, 4 October.

RADM Fred H. Baughman, USN, Vice Commander, Naval Air Systems Command (AIR-09), conducted the Curricula Review of the Aeronautical Engineering Programs on 4 and 5 October 1976.

An orientation and familiarization visit to the Naval Postgraduate School and the Programs in which Surface Warfare Officers are enrolled was arranged for Captain C. J. Wages, USN, the Director, Surface Warfare Manpower and Training Division (NOP-39), on 4 and 5 October 1976.

Mr. C. M. West, CNET (N32), Dr. R. Fontana, Head, Department of Electrical Engineering, AFIT, and Dr. A. J. Shine, Head, Department of Aero-Mechanical Engineering, AFIT, participated in the Curricula Review of the Aeronautical Engineering Programs on 5 October.

Captain Rodney B. McDaniel, USN, Special Assistant, Office of the Chief of Naval Operations, addressed the students of the Defense Resource Management Systems course in Spanagel 400 on 7 October 1976, and conferred with the staff, Naval Postgraduate School.

The Curricula Review for the Environmental Sciences Programs was conducted at the Naval Postgraduate School on 12-15 October 1976. The following officials participated in this review:

Captain C. R. Ward, USN, Director, Naval Oceanography and Meteorology
Captain P. R. Tatro, USN, Office of the Oceanographer of the Navy
Captain W. J. Thearle, CNET, Code N-13
Commander S. H. Applegarth, USN, Office of the Oceanographer of the Navy
Commander R. K. Prien, USN, Office of the Oceanographer of the Navy
Commander J. C. Langemo, USN, Geophysics Detailer (Pers-449)
Mr. C. M. West, CNET, Code N-132
Lieutenant Commander A. Henderson, CNET, Code N-102
Ms. Jane Keenan, CNET, Code N-6123
Mr. C. G. Stewart, CNET, Code 1321
Ms. Carole Williams, CNET, Code N-1331

Orientation and discussions were also held with staff of the Defense Language Institute (West Coast) and the Defense Resources Management Education Center.

LTGEN Lawrence F. Snowden, USMC, Deputy Chief of Staff Plans and Policies, Headquarters Marine Corps (Code P), Washington, D.C., met with the Superintendent and selected members of the faculty and staff of the departments of National Security Affairs and Communications-Electronics to discuss graduate education in certain curricula on Thursday, 14 October.

Mr. Marshall Ryan, Deputy for Resources Analysis of the Office of the Assistant Secretary of the Army (FM) addressed the Defense Resources Management Systems Course at 0820, 15 October 1976.

Members and attendees of the Alternate Device Decision Meeting conducted a research review at the Naval Postgraduate School 18-20 October. Members attending were Colonel Donald L. Lamberson, USAF, AFFC Lab, Dr. Petras Avizonis, Scientist, Captain Roger Massey, USN (PMS 405), Colonel Demos Kyrakis, USAF, and Dr. T. Jacobs.

Discussions were held with Mr. Richard Chern, Head, NADC Employee Development Division, and Mr. Donald Spangenberg, WEPCOSE Program Selection Committee Chairman, regarding NPS Graduate Programs on 19 October.

AFIT Staff visited the NPS on 20 October to discuss institutional programs and procedures related to Air Force needs. Attendees were Colonel E. W. Downs, USAF, Captain H. H. Hughes, USAF, Mr. D. L. Barse, SSGT James Van Kampen, and Mr. William Jenner of the Air Weather Service, Scott AFB.

RADM J. E. Snyder, USN, Oceanographer of the Navy, discussed the Environmental Sciences Program with the Superintendent and Staff on 21 October.

Colonel James C. Keenan, USAF, the Director, Attache Affairs, Headquarters Air Force Intelligence Service, Fort Belvoir, VA, visited the Naval Postgraduate School 19-22 October to meet with selected members of the faculty, staff, and student body of the Department of National Security Affairs to conduct a curricular review of Area Studies Programs.

CARL E. MENNEKEN FELLOWSHIP FOR SCIENTIFIC NAVAL RESEARCH

The first annual Carl E. Menneken Fellowship for Scientific Naval Research was awarded this year to Mr. George Rodenbusch currently pursuing doctoral studies at Woods Hole Oceanographic Institute. This fellowship is given under the auspices of the Naval Postgraduate School Foundation through a donation by Mrs. Carl E. Menneken.

This award is a very appropriate memorial to Carl Menneken and the efforts of the Office of Naval Research and faculty members of the Naval Postgraduate School to select a worthy student for the fellowship are greatly appreciated.

PROFESSIONAL ACTIVITIES

Associate Professor F. Schwirzke, Department of Physics and Chemistry, spent an intersessional quarter at the Headquarters of the Energy Research and Development Administration, Division of Magnetic Fusion Energy, Germantown, Maryland, to perform an independent review of the impurity situation in tokamak systems, make recommendations and submit a comprehensive plan for action.

Associate Professor James K. Arima, Department of Administrative Sciences, has been appointed to the program committee for the 38th Military Operations Research Symposium as section leader for the Support Working Groups. The 38th MORS will be held at Fort Eustis, Virginia, on 7, 8 and 9 December 1976.

Professor Melvin B. Kline, Administrative Sciences Department, presented a paper entitled "Maintainability Considerations in System Design" at the Third Annual Reliability Engineering Conference for the Electric Power Industry in Montreal on September 23, 1976.

Professor Melvin B. Kline, Administrative Sciences Department, presented a paper entitled "A Critique of the Requirements Determination Process" at the Electronic Industries Association, Government Products Division Design/Support Effectiveness Seminar in Los Angeles on September 30, 1976.

Associate Professor Donald M. Layton, Aeronautics Department, presented a paper "The Effect of Bow Seal Shape on the Performance of a Captured Air Bubble Surface Effect Ship" at the Third Advanced Marine Vehicles Conference, sponsored by the AIAA and the Society of Naval and Marine Engineers, 20-22 September 1976 at Arlington, Virginia.

Associate Professor Donald M. Layton, Aeronautics Department, attended a meeting of the AIAA Marine Vehicles Technical Activities Committee in Washington, D.C., on 20 September 1976. He has just been appointed a member of this Committee for a three-year term.

Professor M. F. Platzer presented an invited review paper entitled "Prediction Methods for Jet V/STOL Propulsion Aerodynamics" at the AIAA Aircraft Systems and Technology Meeting held at Dallas, Texas on 27-29 September 1976. The paper was coauthored by R. J. Margason, Head, Low Speed Aerodynamics Branch, NASA-Langley Research Center.

Associate Professor F. R. Richards and Professor D. R. Barr, Department of Operations Research, gave a briefing to technical personnel at Naval Weapons Center, China Lake, CA, on 22 September. The briefing described their work for VX-5 on the analysis of operational data from testing of the Soviet SA-3 GOA Surface-to-Air Missile System.

Associate Professor F. R. Richards, Department of Operations Research, briefed civilian personnel at Naval Weapons Center, China Lake, on 23 September about the Operations Analysis Curriculum at the Naval Postgraduate School.

Associate Professor F. Russell Richards, Department of Operations Research, attended the 1976 Fall meeting of the Society for Industrial and Applied Mathematics (SIAM) held in Atlanta, Georgia, 18-20 October. He presented the paper entitled "Analysis of Deficits in Discrete Time Resource Allocation Problems with Correlated Supplies and Demands" which was produced jointly with Professor K. T. Marshall as a result of their ONR Foundation Research.

TECHNOLOGY UPDATE FOR EXECUTIVES

The short course "Technology Update for Executives" was held at the Naval Postgraduate School September 20-24. This course, which was developed by NPS Faculty members in cooperation with the Western Electronic Manufacturers' Association (WEMA), was attended by more than 120 executives from DoD agencies and private industry. Professor Abraham Sheingold of the Department of Electrical Engineering was the course organizer and coordinator. A general session, attended by all participants, was conducted each morning. These sessions were organized by Professor Rudolf Panholzer of the Electrical Engineering Department, and covered background concepts, integrated circuit operational units and microprocessors. Professors Panholzer and Gary Kildall of the Computer Science Department were lecturers at several of these general sessions. Afternoon sessions were devoted to advanced topics and review of fundamental concepts. NPS participants in these sessions were: Professors Barksdale, Hamming and Kodres of Computer Science, and Professors Kirk, Klamm, Marmont, Sheingold and Tao of Electrical Engineering. The intensive five-day course also included evening sessions devoted to panel discussions.

FACULTY PUBLICATIONS

Haderlie, E.C.

Destructive Marine Wood and Stone Borers in Monterey Bay. Proceedings of the Third International Biodegradation Symposium. J.M. Sharpley and A.M. Kaplan (Eds.) 1976. pp. 947-953. Applied Science Press, London.

Abstract: Two species of wood borers and 11 species of marine organisms which bore into stone are considered in terms of distribution horizontally and vertically and relative importance as destructive agents in Monterey Bay.

Kline, M.B.

Maintainability Considerations in System Design. Proceedings of the Third Annual Reliability Engineering Conference for the Electric Power Industry, pp. 63-78, September 1976.

Abstract: This paper discusses the systems engineering approach for including maintainability as a principal system design parameter. Particular emphasis is placed on the engineering analysis required during the early system life cycle planning phases for establishing the appropriate maintenance concepts and for determining maintainability design requirements. The components which make up preventive and corrective maintenance downtimes are described along with those maintainability design features which can be used to minimize each of these downtime components.

Perkins, A.J. and Todd, James M. LT

Corrosion of Zinc Anodes in Seawater. Naval Engineers Journal. August 1976.

Abstract: Corrosion of metals in an environment such as sea water is of an electrochemical nature. Electrochemical corrosion consists of chemical reaction accompanied by passage of electrical current. In order for this to occur a potential difference must exist between different metallic areas in the system. Anodes exist at areas of lower (reduction) potential where dissolution of metal occurs by the loss of electrons (oxidation) to form ions. Cathodes exist at areas of higher (reduction) potential where the anode-liberated electrons migrate to be utilized in a reduction process. The reduction process can take a variety of forms.

NOTICE

Material for the Faculty Bulletin may be submitted to the Editor, Faculty Bulletin, LCDR James Carwin, USN, Code 0304. It is requested that the abstracts be limited to fifty words.

TRAVEL ORDERS WRITTEN TO 22 OCTOBER 1976

Supported by O&MN Funds:

Rahe, G.A.	13-16 Oct 76	Laurel, MD.	Presentation at the ELF Electromagnetics Seminar
Borsting, J.R.	17-24 Oct 76	Wash. DC & Phoenix AZ	Participate in FM Symposium & attend WACSB.
Wilde, C.O.	19-23 Oct 76	Brunswick, ME	For off-campus ASW program
Jones, C.R.	20-23 Oct 76	Phoenix, AZ	Attend WACSB
Woods, W.M.	21-31 Oct 76	Jacksonville FL	ASW Briefing on CE programs
Wickham, J.B.	23-25 Oct 76	Wash., DC	
		San Francisco	Participate in oceanography workshop

Supported by Research funds:

Duffin, J.H.	15 Oct 76	San Diego	Travel to NARF for inter-session quarter
Wang, P.C.C.	15 Oct 76	San Francisco	To obtain visa.
Garwood, R.W.	19-22 Oct 76	Seattle	Participate in NORPAX Mtg
Elsberry, R.L.	20-22 Oct 76	Seattle	Participate in NORPAX Mtg
Panholzer, R.	20 Oct 76	San Francisco	Att Minimicro Computer Conf
Finnerty, J.D.	25-29 Oct 76	Los Angeles	Conduct interviews with executives of air industries
Lindsey, G.H.	27-30 Oct 76	Dallas/FtWorth	Contract definition sessions
Brock, J.E.	25-29 Oct 76	Knoxville TN	Consultant services to U.S.
		Chattanooga TN	Nucl Reg Com. and consult on piping w/industry
		Chicago IL	

Supported by Other funds:

Taylor, J.G.	26-30 Oct 76	Richmond VA	Att Army OR Symposium XV
Bomberger, R.B.	26-29 Oct 76	San Diego	Lecture at Human Res Mgmt Center and Safety Motivation
			Lecture at ASWWINGPAC

